



VICTORIA FIRE DEPARTMENT

LTOWB Program 2nd Annual Review

October 2021

WHOLE BLOOD Rh POSITIVE
Low Titer O Whole Blood
Whole Blood/CPDA-I 145ml/4oz
Titer <1:256
450 mL containing
approx 63 mL of
CPDA-I Anticoagulant
Product Code
E005310
Stored at 1-6°C
Collected at Beggs BSD, AFG/20007
Non-CPDA Product

QUANTUM BATTERY
from Life Warrior

NORTH AMERICAN RESCUE™
www.NARescue.com • 888.663.6277

REF 35-0001
NSN: PENDING

Rechargeable Li-Po
Battery 44.4V 910mAh
40.4Wh 12ICP6/34/58

Life Warrior Inc.
4013 Keller Springs Road
Addicks, TX 75001
Mail: Rescue Gear
Lampson/Power Star 71
D-20515 Lampson/Power

Power Control Unit Legend
Ready: Standby/Static
Below Set Point <36°C
Normothermia >36°C
System Error
Low Battery

Symbol Glossary
in User Manual IP67



In November of 2018, The Victoria Fire Department EMS Division began planning the implementation of adding Low Titer O+ Whole Blood as an alternative to traditional IV fluids.

Almost a year later, on 15 October 2019, Victoria Fire Department became one of less than ten ground EMS Services in the United States to carry LTOWB. In the 2 years since that first unit was placed in service, we have infused 58 units of LTOWB for a variety of injuries and illnesses.

The Victoria Fire Department would like to thank our Medical Director, Dr. John McNeill, for his dedication to the department and his tireless efforts to help us bring the best care possible to our citizens.

Trauma accounted for 40% of whole blood transfusions, while medical complaints made up the remaining 60%. When we receive a unit of blood it typically has a shelf life of 28-30 days. We have had 5 units expire since the inception of the program, all of which occurred in the first year.

Units Given

35

Trauma

14 / 40%

Medical

21 / 60%



25/71%



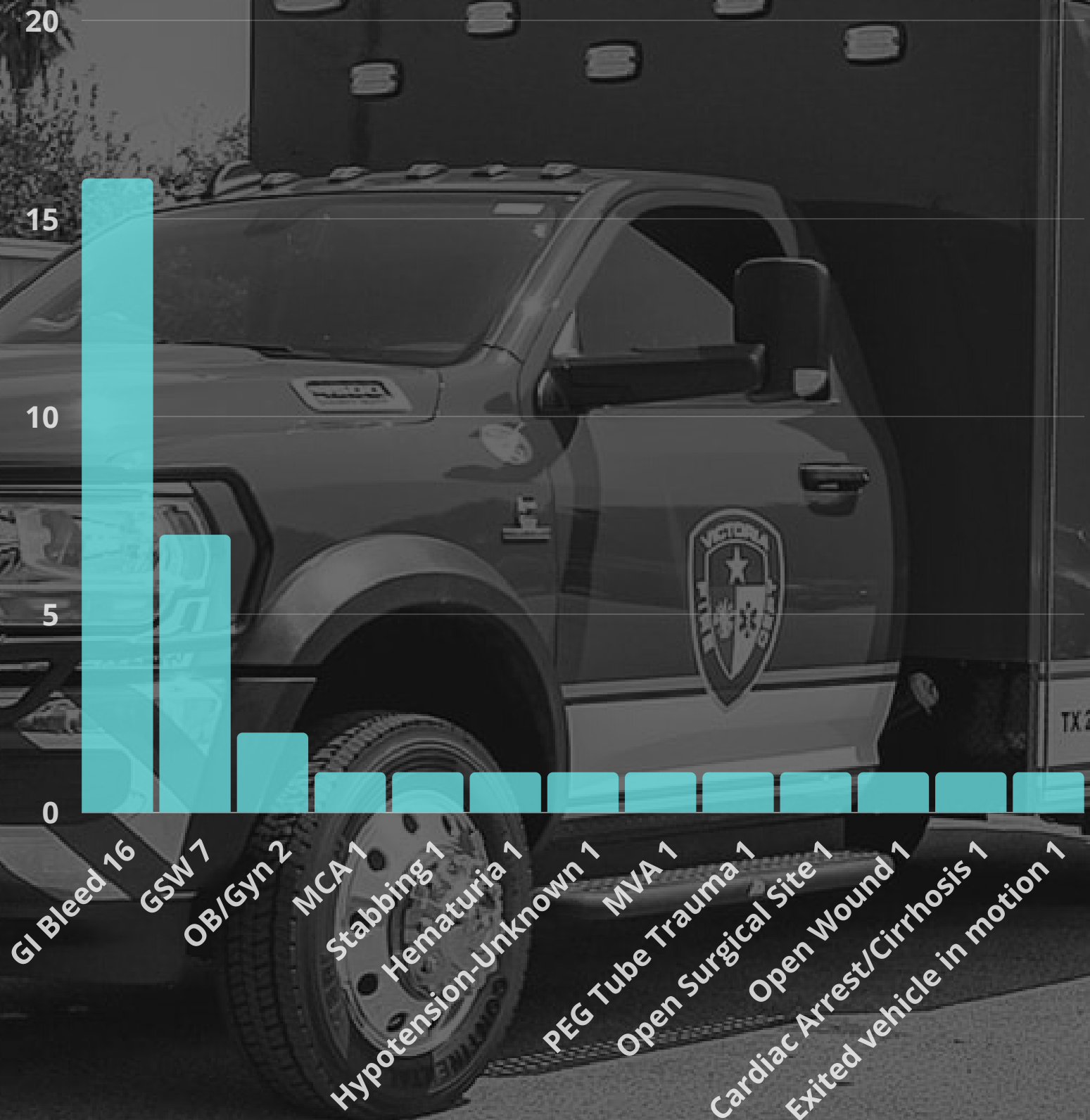
10/29%

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This graph depicts the wide range of injuries/illnesses that required the transfusion of whole blood.



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There have been no adverse reactions in any of the 58 transfusions performed.

Survival after Transfusion

Survived to ER

32

Deceased

3

0

10

20

30

40

Transfusions by Shift

A

11 units

B

13 units

C

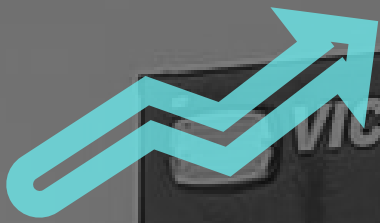
11 units

0

5

10

15



Year 2 saw a 52% increase in infusions over year 1

26%

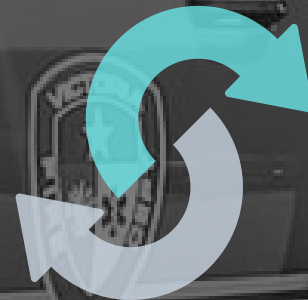
74%



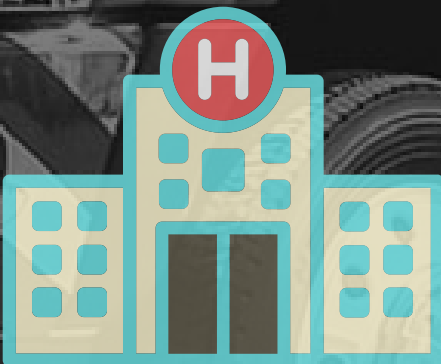
Males represent the majority of infusions by VFD over the 2 years we have had the program.



2 of 37 units expired this year compared to 5 of 28 in year 1 - a decrease of 13%.



60% of infusions this year were for medical issues vs only 22% in the first year.



Survival to ED following the event increased from 83% in year 1 to 91% this year.